

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 1, 11, 12, 23 and 32 and CANCEL claims 8, 10, 20, 22 and 31 without prejudice or disclaimer in accordance with the following:

1. (Currently Amended) An information storage medium comprising:
a user data area provided with a sequence of basic recording units to record user data,
wherein information about the user data area, where user data is recorded, is recorded in
at least one of ana run-in area ~~right before~~ and ana run-out area ~~of right after~~ each basic
recording unit of the user data area, ~~disposed between successive basic recording units in the~~
~~user data area, and~~
~~wherein the basic recording unit of the user data area is a physical cluster, and the~~
~~information about the user data area is recorded in at least one of a run-in area and a run-out~~
~~area that is right before and after the physical cluster, respectively~~
wherein the information about the user data area includes layer information of the
information storage medium recorded in the form of consecutive patterns of identical intervals or
in the form of different patterns of different sized intervals.

2-8. (Canceled)

9. (Original) The information storage medium of claim 1, wherein the
information about the user data area is recorded using addresses.

10. (Canceled)

11. (Currently Amended) The information storage medium of ~~claim 10~~claim 1,
wherein the storage layer information is recorded using addresses.

12. (Currently Amended) A method of recording and/or reproducing data on an information storage medium having a user data area provided with a sequence of basic recording units to record user data, the method comprising:

reading information about the user data area, where user data is recorded, ~~from in~~ at least one of a run-in area right before and a run-out area right after of each basic recording unit of the user data area, ~~disposed between successive basic recording units in the user data area;~~ and

recording and/or reproducing data based on the information about the user data area, wherein the information about the user data area includes layer information of the information storage medium recorded in the form of consecutive patterns of identical intervals or in the form of different patterns of different sized intervals ~~wherein the basic recording unit of the user data area is a physical cluster, and the information about the user data area is recorded in at least one of a run-in area and a run-out area that is right before and after the physical cluster, respectively.~~

13-20. (Canceled)

21. (Original) The method of claim 12, wherein the information about the user data area is recorded using addresses.

22. (Canceled)

23. (Currently Amended) The method of ~~claim 22~~ claim 12, wherein the storage layer information is recorded using addresses.

24. (Original) The information storage medium of claim 1, wherein the information storage medium is a recordable information storage medium.

25. (Cancelled)

26. (Original) The information storage medium of claim 1, wherein the information storage medium is one of recordable and reproduction-only optical discs.

27-31. (Cancelled)

32. (Currently Amended) A method of operating a storage medium having a user data area provided with a sequence of basic recording units to store user data, the method comprising:

accessing information about the user data area, where user data is recorded, from at least one of ~~ana run-in~~ area right before and ~~ana run-out~~ area right after of each basic recording unit of the user data area, disposed between successive basic recording units in the user data area; and

operating the storage medium based on the accessed information,

~~wherein the basic recording unit of the user data area is a physical cluster, and the information about the user data area is recorded in at least one of a run-in area and a run-out area that is right before and after the physical cluster, respectively~~

wherein the information about the user data area includes layer information of the information storage medium recorded in the form of consecutive patterns of identical intervals or in the form of different patterns of different sized intervals.

33. (Original) The method of claim 32, further comprising recognizing a layer of the storage medium based on the accessed information, wherein the operating of the storage medium includes recording and/or reproducing data with respect to the layer.

34. (Original) The method of claim 33, wherein the recognizing of the layer comprises recognizing the layer in response to the accessed information belonging to a predetermined group of addresses.

35. (Original) The method of claim 32, further comprising identifying a desired layer of the storage medium based on ranges to which the accessed information belongs.

36. (Original) The method of claim 35, wherein the identifying of the desired layer comprises:

recognizing a storage layer of the storage medium as the desired layer in response to the accessed information belonging to a predetermined range; and

in response to the accessed information not belonging to the predetermined range,

accessing another storage layer of the storage medium so as to determine whether accessed information thereof belongs to the predetermined range.

37. (Original) The method of claim 36, wherein the operating of the storage medium includes recording and/or reproducing data with respect to the desired layer.

38. (Original) The method of claim 32, further comprising identifying storage layers of the storage medium, wherein the identifying of the storage layers comprises:

recognizing a first layer of the storage layers in response to the accessed information belonging to a first predetermined range;

in response to the accessed information not belonging to the first predetermined range, accessing a second layer of the storage layers so as to determine whether accessed information thereof belongs to a second predetermined range;

recognizing the second layer of the storage layers in response to accessed information thereof belonging to the second predetermined range; and

in response to the accessed information of the second layer not belonging to the second predetermined range, accessing another layer of the storage layers so as to determine whether accessed information thereof belongs to the second predetermined range.